CAL-ROYAL PRODUCTS, INC.

PIONEER - Series

Instructions For Installing
SL-Series Lever Handle Sets

NOTE: Accurate door preparation is essential for proper functioning of this lock. Follow template and instructions carefully.

SL SERIES ARE PACKED UNASSEMBLED INSIDE BOX FOR CONVENIENCE & QUICK INSTALLATION

Through-bolts are provided and recommended for use on high frequency doors.

The anti-sagging mechanism of handle in SL-series lever handle set has a patent pending in the U.S. and foreign countries.

1. Mark door
A. Check lock for proper backset and body outside through - bolt type before marking. NOTE: Through-bolts are provided and recommended for use on high frequency doors. B. Mark center. C. Use stake to mark center for door bevel (high or low bevel, or flat). D. Position template at correct marking for door bevel - (high or low bevel, or flat). E. Mark center for 5/16" (8mm) hole. F. Also mark for (2) 5/16" (8mm) holes for through-bolt type. NOTE: Do not mark (2) 5/16" holes for locks no through-bolt type. G. Use stub to mark center of door thickness. HINT: For retrofitting existing lock holes, fold template in half to position for the mounting screws.

2. Drill holes
A. Drill a 21/64" (8mm) hole through door (from both sides to avoid damaging door). B. Drill (2) 5/32" (8mm) holes for through bolt holes. HINT: Do not drill the (2) 5/32" (8mm) holes for latches for through bolt type. C. Drill 1" (25mm) or 13/8" (32mm) (depending on latch housing diameter) in door edge.

3. Install latch
A. Insert latch into hole. Trace around faceplate. B. Chisel out wood until faceplate fits flat with door edge. C. Drill (2) 9/64" (3.5mm) holes in securing latch unit with combi-screws supplied. D. Screw latch to door so that beveled side of latchbolt faces jamb.

4. Install strike
ASA Strike - Standard
A. Mark vertical line and heightline on jamb exactly opposite center of latch hole. B. Drill (2) 5/32" (8mm) holes, 15/32" (12mm) deep, 7/8" (22mm) above and below heightline. C. Use strike plate to pattern for cutout. Clean out hole and install strike.

5. Disassemble inside trim
Removal White Paper Before Installing Inside Lever

NOTE: Through-bolts are packed and recommended for use on high frequency doors.

Inside Mounting Plate
Inside Rosette ASSY
Through-bolt INSTALL CONVERTIBLE THRUBOLTS
MAKE SURE INSTALL THRUBOLTS BEFORE LOCK INSTALLATION

Through-bolts are provided and recommended for use on high frequency doors.

D. Insert the convertible thrubolts (provided 2pcs additionally) into the tapping holes for convertible thrubolts in the inside rosette assembly.
6. Adjust for door thickness

LOCKSET IS FACTORY PRESET FOR 1 3/16" (45mm) DOORS.

See step 6 to center chassis in door or to change adjustment of other door thicknesses.

i. Adjust for door thickness

- Adjust to 5/8" for 1 1/4" door
- Adjust to 1 1/4" for 1 3/4" door

It can be adjusted for door thickness range from 1 1/4" to 1 3/4".

For adjustment of door thickness, follow step 11, then:

A. Adjust outside mounting plate for proper door thickness. At final position, the screw post hole must be in line with hole in lockbody.
B. Slide outside rose assembly with rose cover onto spindle with the wider notch at inside diameter in line with lever catch.

NOTE: See Step 11 must be done if you have to make adjustments for door thickness.

ADJUSTMENT FOR DOOR THICKNESS

1. Install inside rose assembly

2. Install inside lever

3. Slide inside lever onto spindle

4. Push lever completely into place. (Pull on lever to make sure that catch is fully engaged.)

5. Test operation of lock to make sure you have followed instructions correctly.

7. Install outside lock unit

- Engage prongs

8. Install Mounting plate.

- Drill (6) 9/64" (3.5mm) holes
- NOTE 1: Two #10-32UNF x 1 1/4"L screws
- NOTE 2: Two M6.0 x P0.75 x 8.5L screws

9. Install outside lock unit

- Outside unit
- Drill (4) 9/64" (3.5mm) holes
- Secure the mounting plate with four combi-screws supplied.

CAUTION: When using power screwdriver for installation, set to minimum torque setting.

10. Install outside lever

- Outside lever
- Insert key into cylinder. Insert push pin (or similar tool) into hole in lever. Twist key one - quarter turn and push tool (push pin) to depress lever catch. Slide the lever from spindle.

11. Remove outside lever

- Outside lever
- A. To reassemble. Put a cylinder and key in lever.
- B. Push cylinder further in until it engages retractor.
- C. Turn key 90° clockwise and hold a key.
- D. Depress lever catch and push lever (Not key) in until it clicks then release a key.

CAUTION FOR CLASSROOM FUNCTION:

- Make sure to turn cam anti - clockwise by driver as far as it will go before reassembling of cylinder to prevent mis-alignment of cam for classroom function.